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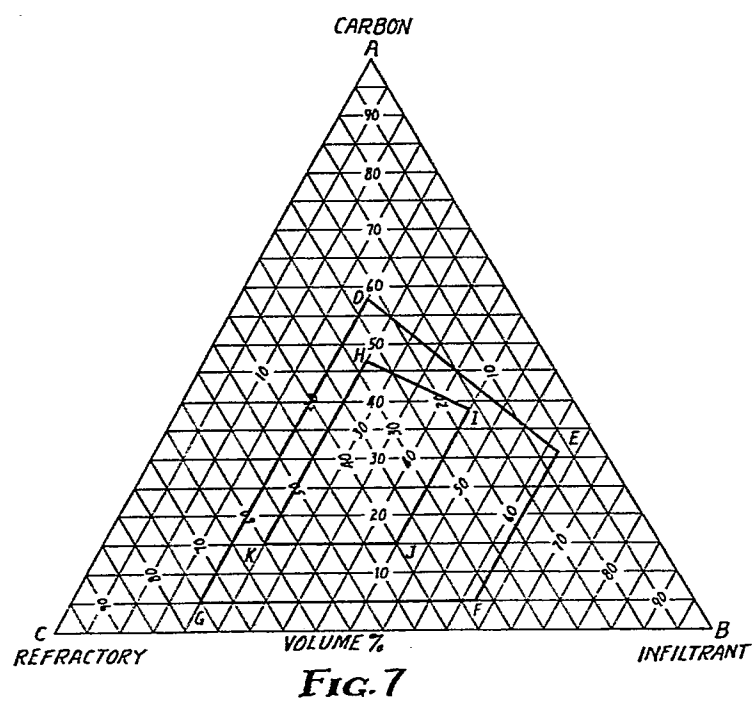
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(54) EDM electrodes.

(57) A precision molded electrical discharge machining (EDM) electrode pertaining to the field of powder metallurgy. The electrode is made by shaping a preform from granules of carbon and granules of a refractory material selected from the group consisting of tungsten, molybdenum, carbides thereof, and stoichiometric and hyperstoichiometric carbides of the other elements of the groups IVB, VB, and VIB of the Periodic Table of the Elements, the carbon and refractory granules being interconnected in the form of a skeleton at their contiguous points of contact, and infiltrating the preform with copper, silver, or alloys containing those metals. Despite the inability of most infiltrants to wet carbon, infiltration of the preform at ambient pressure is carried out by selecting the amount and surface area of carbon and refractory granules used in the preform according to a prescribed relationship.





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EUROPEAN SEARCH REPORT

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Application number

EP 81 30 0293

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
D, Y	US-A-3 929 476 (3M) *Claims 1,3,4*	1,4,8,10	B 23 P 1/12
Y	--- US-A-3 907 950 (MINISTER OF TECHNOLOGY) *Claims 1,18,20; column 3, lines 8-18*	1,8,10	
Y	--- US-A-3 413 435 (RAMETCO) *Abstract* -----	1,5	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			B 23 P 1/12
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 01-06-1982	Examiner DAILLOUX C.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	